REMARKS

Drawings:

Applicant thanks the Examiner for indicating that drawings filed on July 22, 2002 have been accepted.

Claim Rejections:

Claims 11-10, 12-24, 26-37 and 39-41 are all of the claims that have been examined in the present application, and currently all of these claims stand rejected.

35 U.S.C. § 102(e) Rejection - Claims 1, 12, 29, and 39:

Claims 1, 12, 29 and 39 stand rejected under 35 U.S.C. § 102(e) as being anticipated by the '009 Patent to Risch. In view of the following discussion, Applicant respectfully disagrees.

Claim 1:

With regard to claim 1, Applicant notes that Risch fails to disclose a fiber optic cable having at least one gel-swellable portion which is proximate to an inner surface of an outer layer, where the gel-swellable portion has a density less than 0.90 g/cc and the outer layer has a density of 0.90 g/cc or more. In Risch, the Examiner is relying on the buffer tubes 12 as the "swellable" layer of the present invention, however, there is no disclosure of any kind regarding the density of the buffer tube 12 with respect to the outer layer, as set forth in claim 1.

<u>Claim 29:</u>

With regard to claim 29, Applicant notes that Risch fails to disclose a fiber optic cable having at least one gel-swellable portion which is proximate to an inner surface of an outer layer or an outer surface of an optical fiber, where the gel-swellable portion is made from a material softer than the surface to which it is proximate to. In Risch, the Examiner is relying on the

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buffer tubes 12 as the "swellable" layer of the present invention, however, there is no disclosure of any kind regarding the material hardness of the buffer tube 12 with respect to the outer layer, as set forth in claim 1.

Therefore, in view of the foregoing, Applicant submits that Risch fails to disclose each and every feature of the claimed invention, as set forth in claims 1 and 29, and hereby requests the Examiner reconsider and withdraw the above 35 U.S.C. § 102(e) rejection of these claims. Further, as claims 12 and 39 depend on these claims, Applicant respectfully submits that these claims are also allowable, at least by reason of their dependence.

35 U.S.C. § 103(a) Rejection - Claims 2-10, 13-14, 30-37, and 40-41:

Claims 2-10, 13-14, 30-37 and 40-41 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over the '009 patent in view of the '023 patent. However, since claims 2-10, 13-14, 30-37 and 40-41 depend on claims 1 and 29, respectively, Applicant submits that these claims are also allowable, at least by reason of their dependence.

35 U.S.C. § 103(a) Rejection - Claims 15-24 and 26-28:

Claims 15-24 and 26-28 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over the '009 patent in view of the '023 patent.

Applicant again notes that neither of the '009 or the '023 patents disclose, teach or suggest, either individually or in combination, having a gel-swellable portion contacting an outer surface of an optical fiber which absorbs gel and swells more than 10% at 85°C. It is for at least this reason that Applicant submits that the combination of the above references fails to disclose, teach or suggest each and every feature of the claimed invention. See claim 15.

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Therefore, Applicant submits that the Examiner has failed to establish a prima facie case

of obviousness with respect to claim 15, and hereby requests the Examiner reconsider and

withdraw the above 35 U.S.C. § 103(a) rejection of this claim. Further, as claims 16-24 and 26-

28 depend on this claim, Applicant submits that these claims are also allowable, at least by

reason of their dependence.

Conclusion:

In view of the above, reconsideration and allowance of this application are now believed

to be in order, and such actions are hereby solicited. If any points remain in issue which the

Examiner feels may be best resolved through a personal or telephone interview, the Examiner is

kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue

Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any

overpayments to said Deposit Account.

Respectfully submitted,

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APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

The claims are amended as follows:

1. (Twice Amended) A fiber optic cable, comprising:

an outer layer;

at least one optical fiber disposed inside said outer layer; and

at least onea gel-swellable portion -proximate to an inner surface of said outer layer; and

a water resistant gel positioned adjacent to each other and said gel-swellable portion and

disposed between said outer layer and said optical fiber;

wherein said gel-swellable portion-absorbs at least some of said gel, and wherein said gel-swellable portion swells more than 10% at 85°C has a density of less than 0.90 g/cc and said outer layer has a density of at least 0.90 g/cc.

- 2. (Amended) The fiber optic cable according to claim 1, wherein said at least one gel-swellable portion is a continuous layer surrounding said at least one optical fiber.
- 3. (Amended) The fiber optic cable according to claim 21, wherein said at least one continuous layergel-swellable portion has an uneven thickness.
- 4. (Amended) The fiber optic cable according to claim 1, wherein said at least one gel-swellable portion has a smooth surface.

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5. (Amended) The fiber optic cable according to claim 1, wherein said at least one gel-

swellable portion is adhered to an outer surface of said at least one optical fiber has at least one

groove in a surface of said at least one gel-swellable portion.

6. (Amended) The fiber optic cable according to claim 1, wherein said at least one gel-

swellable portion is adhered to an inner surface of said outer layermade from at least one

longitudinally running strip.

7. (Amended) The fiber optic cable according to claim 1, wherein said at least

one gel-swellable portion extends longitudinally along the length of said at least at least one

optical fiberfurther comprising a second gel-swellable portion positioned between said gel-

swellable portion and said at least one optical fiber.

8. (Amended) The fiber optic cable according to claim 1, wherein said at least one gel-

swellable portion has an uneven thicknessa corrugated surface which is adjacent to said gel.

9. (Amended) The fiber optic cable according to claim 1, wherein said gel-swellable

portion has a density less than 0.90 g/ceat least one gel-swellable portion contacts said inner

surface of said outer layer.

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10. (Amended) The fiber optic cable according to claim 1, wherein said at least one gel-swellable portion is one of a copolymer or terpolymer of polyethelene.

11. (Re-Add) The fiber optic cable according to claim 1, wherein said gel-swellable portion swells more than 10% at 85°C.

13. (Amended) The fiber optic cable according to claim 1, wherein said at least one gel-swellable portion is a polyolefin swellable material.

14. (Amended) The fiber optic cable according to claim 1, wherein the material of said at least one gel-swellable portion is softer than the material of said outer layer.

15. (Twice Amended) A fiber optic cable, comprising:

an outer layer;

at least one optical fiber ribbon-disposed inside said outer layer; and

a gel-swellable layerportion contacting an outer surface of said optical fiber; and

a water resistant gel positioned adjacent to each other said gel-swellable portion and disposed between said outer layer and said ribbon;

wherein said gel swellable <u>layer-portion</u> absorbs at least some of a said gel, and wherein said gel-swellable <u>layer-portion</u> swells more than 10% at 85°C.

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16. (Amended) The fiber optic cable according to claim 15, wherein said gelswellable portion is a continuous layer surrounding said at least one ribbonoptical fiber.

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- 17. (Amended) The fiber optic cable according to claim 1615, wherein said continuous layergel-swellable portion has an uneven thickness.
- 18. (Amended) The fiber optic cable according to claim 15, wherein said at least one-gel_-swellable portion has a smooth surface.
- 19. (Amended) The fiber optic cable according to claim 15, wherein said at least one gel-swellable portion is secured to an outer surface of said at least one ribbonhas at least one groove in a surface of said gel-swellable portion.
- 20. (Amended) The fiber optic cable according to claim 15, wherein said at least one gel-swellable portion is secured to an inner surface of said outer layer made from at least one longitudinally running strip.
- 21. (Amended) The fiber optic cable according to claim 15, wherein said at least one gel swellable portion extends longitudinally along the length of said at least one ribbonfurther comprising a second gel-swellable portion positioned between said gel-swellable portion and said outer jacket.

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22. (Amended) The fiber optic cable according to claim 15, wherein said at least one-gel-swellable portion has an uneven thicknessa corrugated surface which is adjacent to said gel.

27. (Amended) The fiber optic cable according to claim 15, wherein said gelswellable layer portion is a polyolefin swellable material.

28. (Amended) The fiber optic cable according to claim 15, wherein the material of said gel-swellable portion is softer than the material of said outer layer.

29. (Twice Amended) A fiber optic cable, comprising:

an outer layer, having at least one gel-swellable portion adhered to an inside surface of said outer layer;

at least one optical fiber; and

a water resistant gel disposed between said at least one optical fiber and said outer layer; and

at least one gel-swellable portion proximate to one of an inner surface of said outer layer and an outer surface of said optical fiber;

wherein said gel-swellable portion absorbs at least some of said gel, and wherein said gel swellable portion swells more than 10% at 85°C is made from a material softer than said one of said inner surface and said outer surface to which said gel-swellable portion is adhered to.

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30. (Amended) The fiber optic cable according to claim 29, wherein said <u>at least</u> one gel-swellable portion is a continuous layer on said inner surface of said outer layer.

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- 31. (Amended) The fiber optic cable according to claim 3029, wherein said continuous layerat least one gel-swellable portion has an uneven thickness.
- 32. (Amended) The fiber optic cable according to claim 29, wherein said at least one gel--swellable portion has a smooth surface.
- 33. (Amended) The fiber optic cable according to claim 29, further comprising at least one other gel swellable portion adhered to an outer surface of said at least one optical fiberwherein said at least one gel-swellable portion has a groove in a surface of said at least one gel-swellable portion.
- 34. (Amended) The fiber optic cable according to claim 29, wherein said at least one gel-swellable portion extends longitudinally along the length of said outer layer is made from at least one longitudinally running strip.
- 35. The fiber optic cable according to claim 29, wherein said at least one gel-swellable portion has an uneven thickness further comprising a second gel-swellable portion

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positioned between said at least one gel-swellable portion and the other of said outer surface and said inner surface.

36. (Amended) The fiber optic cable according to claim 29, wherein said at least one gel-swellable portion has a density less than 0.90 g/cc.

37. (Amended) The fiber optic cable according to claim 29, wherein said <u>at least</u> one gel-swellable portion is one of a copolymer or terpolymer of polyethelene.

40. (Amended) The fiber optic cable according to claim 29, wherein said <u>at least</u> one gel-swellable portion is a polyolefin swellable material.

41. (Amended) The fiber optic cable according to claim 29, wherein said <u>at least</u> one gel-swellable portion is softer than said outer layer has a corrugated surface.

Claims 42-44 are added as new claims.